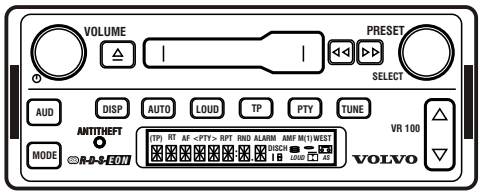
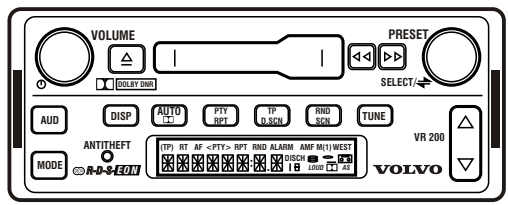
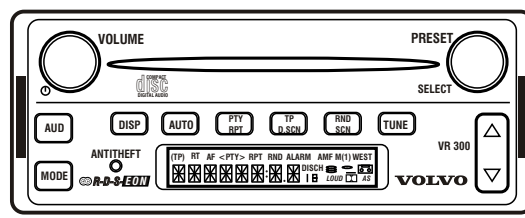
OPERATING INSTRUCTIONS
RADIO
VR100, VR200, VR300, VR400



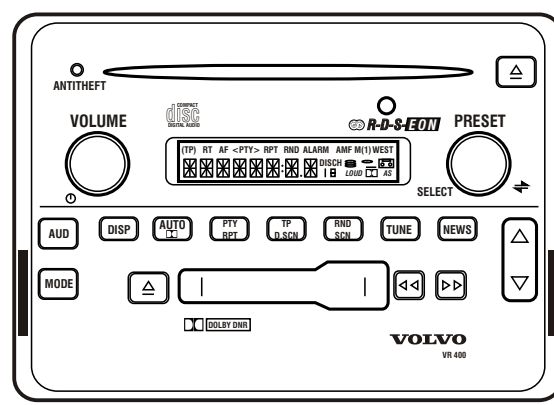
VR100



VR200



VR300



VR400

VOLVO

New Roads.™

Foreword

This manual contains information about the safe operation of your radio. It is extremely important that this information is read and understood before the radio is operated. Please keep the manual in the vehicle at all times.

Note: It is important that this manual stays with the vehicle when it is sold. Important cautions and safety information must be passed on to the new customer. The manual contains important usage and instructional information.

The National Highway Traffic Safety Administration (NHTSA) and Volvo Trucks North America, Inc. should be informed immediately if you believe that the vehicle has a defect that could cause a crash, injury or death.

Contact NHTSA by calling the Auto Safety Hotline at 1 (800) 424–9393 or 1 (888) 327–4236. Send written complaints to: NHTSA, U.S. Department of Transportation, Washington, DC 20590.

Volvo Trucks North America, Inc.
Greensboro, NC USA

Order number: PV776-20 183276

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Warning Label Information

IT IS IMPORTANT THAT THE FOLLOWING INFORMATION CONCERNING LABELS BE READ, UNDERSTOOD AND ALWAYS FOLLOWED.
The following types of labels are used throughout this manual:

Note: A note defines an operating procedure, practice, condition, etc., which is essential to the proper operation of the vehicle.

CAUTION

A caution label directs the operator's attention to unsafe practices where personal injury is not likely but property damage could occur. The caution label is a **black** type on a **white** background with a **black** border.

General Information

Do Not Remove this manual from the vehicle. The manual contains important operational and safety information that is needed by all drivers and owners of this vehicle.

Note: Illustrations in this manual are used for reference only and may differ slightly from the actual vehicle, however, key components of the radio are represented as accurately as possible.

Volvo Trucks North America, Inc. reserves the right to make changes at any time or to change specifications or design without notice and without incurring obligation.

Icons

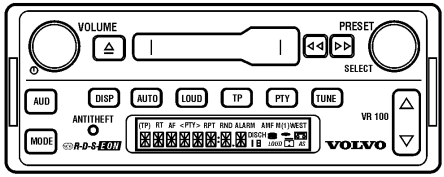
ICONS	MEANING
AUD	AUDIO
AUTO	AUTOMATIC
DISP	DISPLAY
PTY/RPT	PROGRAM TYPE FUNCTION/REPEAT
TP/D.SCN	TRAFFIC PROGRAM/DISC SCAN
RND/SCN	RANDOM/SCAN

System Overview

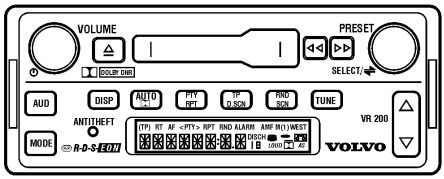
Four models of the radio are available:

- **Model VR 100** – AM/FM/Mechanical Cassette
- **Model VR 200** – AM/FM/Logic cassette with external CD changer capability
- **Model VR 300** – 1–Din AM/FM/CD player with external CD changer capability
- **Model VR 400** – 2–Din AM/FM/Logic Cassette/CD player with external CD changer capability

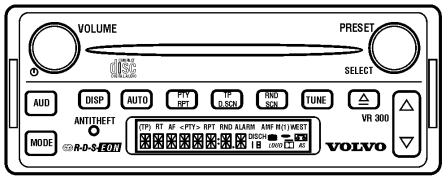
In addition to the front panel controls for these radios, most models can also be controlled using an optional remote wireless control or optional steering wheel-mounted controls



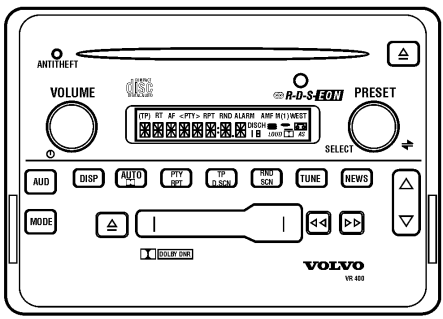
MODEL VR100



MODEL VR200



MODEL VR300



MODEL VR400

Using the Radio

Note: Before using the manual, check to see what radio model is in your vehicle. Some system features described may not apply to your radio.

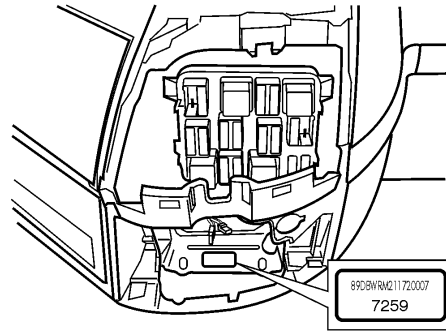
Security Code

The radio is protected by a security code.

- **Vehicles built after April 4, 2003:** The security code is found in two locations listed below:
  (1) An adhesive label is underneath the ashtray, on top of the ashtray bracket. The security code cannot be changed.

  See illustration for location of code. To access, remove the top fuse tray cover and the front relay cover, then the ashtray can be removed.
  (2) There is a copy in the spare fuse bag, which is inside the owner's information package provided from the factory. Retain this code for future reference.
- **Vehicles built after March 3, 2003:** The security code is located on an adhesive label underneath the ashtray, on top of the ashtray bracket.

- **Vehicles built before March 3, 2003:** The security code is located in the spare fuse bag, which is inside the owner's information package provided from the factory.



Note: Certain vehicles have optional electronic devices that will automatically enter the security code if power is interrupted.

When the radio power is first turned on after power has been interrupted, "ID CHECK" is displayed for 3 seconds, followed by "LOCK", then 0000 is displayed.

4 General Information

To unlock the radio, enter the four-digit security code found on the removable label, follow these instructions:

Turn SELECT to scroll to **first** number.

Press SELECT to select number.

Turn SELECT to scroll to **second** number.

Press SELECT to select number.

Turn SELECT to scroll to **third** number.

Press SELECT to select number.

Turn SELECT to scroll to **fourth** number.

Press SELECT to select number.

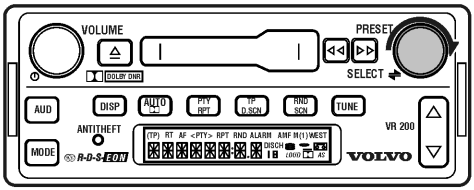
If the code is entered correctly, the radio will switch to the last active mode (i.e. FM, CD, etc.) and is ready to use.

If the code is entered incorrectly, you can try 2 more times. After 3 incorrect entries, the radio will display “LOCK”.

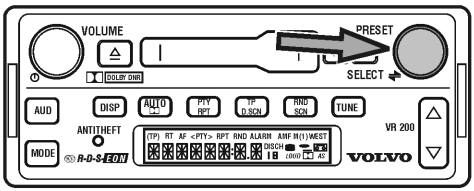
Note: The radio can NOT be manually turned off, it remains ON with a lock code message.

Note: To unlock code: Leave the battery and ignition ON and uninterrupted for one hour.

Note: If your security code is lost, contact your local Volvo dealer.



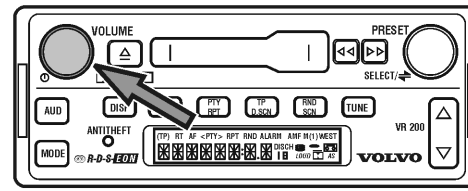
MODEL VR200



MODEL VR200

Power ON/OFF

Press the VOLUME knob to turn ON/OFF.

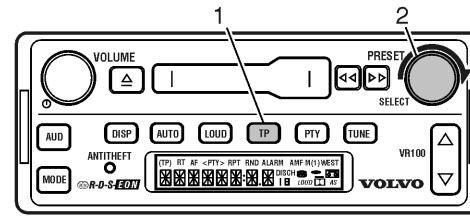


MODEL VR200

Language

To select the desired Radio Data System (RDS) Program Type Function (PTY) display language, turn the radio OFF.

1 Press and hold TP for 2 seconds.
2 Turn SELECT to scroll through available languages.



MODEL VR100

(English, Español, Français in US-selected frequency bands).

After the desired language is displayed for 5 seconds, the setting is saved and the display returns to the default.

Country Frequency Selection

Different countries broadcast on different sets of radio frequencies. Selections can be made from different country-specific radio frequency bands.

To select a country frequency band, with the radio ON;

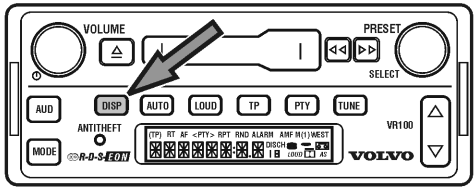
Press and hold DISP for 3 seconds until the current country frequency band is displayed.

Press MODE to scroll through available bands.

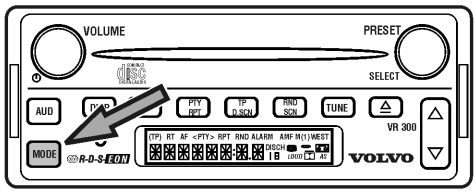
AMERICAS > EUROPE > AUSTRALI > JAPAN > ARGENTIN > SAUDI

The selected band will be saved after 5 seconds.

Note: When a new country is selected, all preset stations from the previous country are erased.



MODEL VR100



MODEL VR300

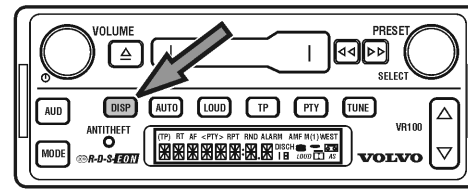
Display Illumination

All of the radio controls are illuminated for nighttime viewing. Dimming the vehicle interior lights will dim the radio controls also.

Clock

Displaying the Time

When the ignition is on, the time of day is displayed, even when the radio is off. When the ignition is off, you can display the time for 5 seconds.



MODEL VR100

Press DISP to display the time.

While the radio is on and in any mode, press and release the DISP button to change the display from the current display to the time of day.

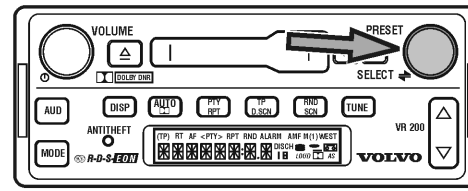
Note: If the radio is currently tuned to an RDS broadcast, the DISP button may need to be pressed several times to see the time of day.

Setting the Clock

12–or 24–Hour Format

You can select either a 12-hour or 24-hour style time display. To change the time format,

Press and hold the SELECT button until 12/24 is displayed.



MODEL VR200

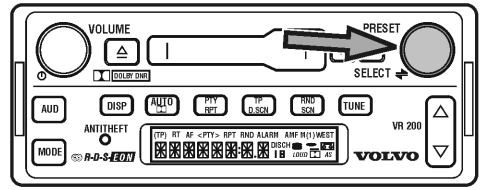
The number shown after 12/24 indicates which format is selected (12-hour or 24-hour). To change this number, press the SELECT knob. After 5 seconds, the setting is saved and the display returns to default.

Note: When Non-European frequency is selected, the 12-hour format is selected automatically, however, it can be changed by following the previous steps.

Setting Time of Day

To change the time of day;

Press and hold the SELECT button for 3 seconds.

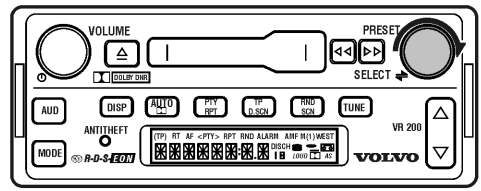


MODEL VR200

Turn the SELECT button to show TIMESET,

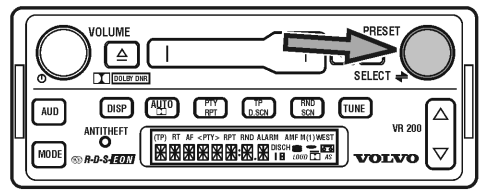
Press the SELECT button.

Turn the SELECT button to the correct hour.



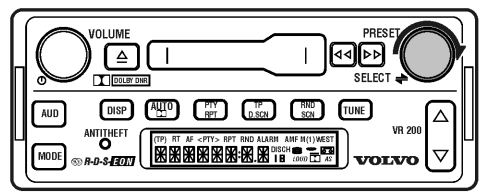
MODEL VR200

Press SELECT until minutes flash.



MODEL VR200

Turn the SELECT button to correct minutes.



MODEL VR200

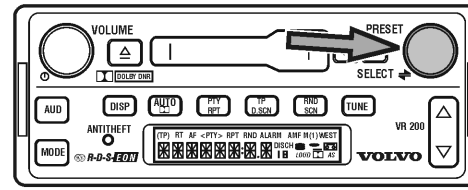
After 5 seconds, the setting is saved and the display returns to the default.

Alarm Clock and Timer VR 200, VR 300 and VR 400

Setting the Alarm Clock

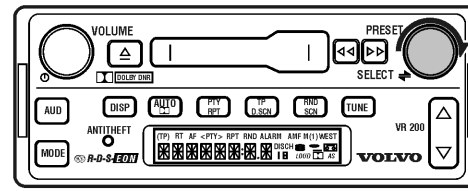
To set the alarm clock;

Press and hold SELECT for 3 seconds.



MODEL VR200

Turn the SELECT button to show ASET.



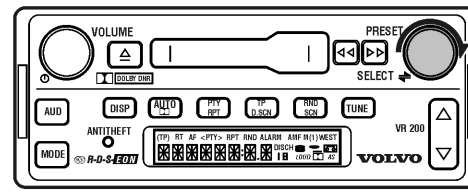
MODEL VR200

Turn the SELECT button to the correct hour.

If the radio is set to the 12–hour format, “AM” or “PM” is also displayed.

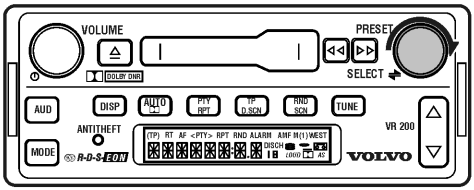
After AM or PM is chosen then ALARM **N** or **Y** is displayed.

Press **Y** to set alarm, or **N** if you do not want to set alarm.



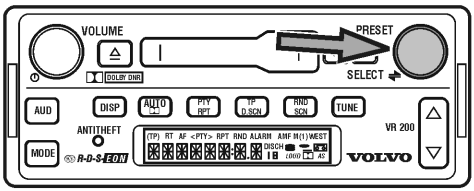
MODEL VR200

Turn the SELECT button to change the hour.



MODEL VR200

Press the SELECT button until minutes flash.

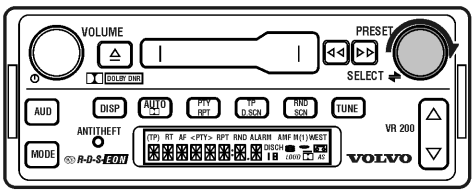


MODEL VR200

Turn the SELECT button to change minutes.

After 5 seconds, the setting is saved and the display returns to the default.

Note: If the radio is in the 12-hour format, make sure the setting correctly shows AM or PM.



MODEL VR200

Alarm Clock ON/OFF/Snooze

To turn the alarm ON or OFF, press and hold the SELECT knob for 3 seconds until 12/24 is displayed, then turn the SELECT knob until “ALARM” is displayed. Press the SELECT knob to choose between “Y” (ON) or “N” (OFF). After 5 seconds, the setting is saved and the display returns to the default. When the alarm is set, the alarm icon **ALARM** is displayed.

If the radio is on when the alarm time is reached, a beeping alarm sounds and the alarm time is shown. If the radio is OFF when the alarm time is reached, the last radio mode turns ON.

In either case, if you press any of the radio buttons while the alarm is going OFF, the alarm “snoozes” for 9 minutes.

After 9 minutes, the alarm turns ON again and remains ON until snooze is activated or the alarm is turned off, as described above.

Note: If the alarm is not turned OFF or the snooze mode is not activated, the alarm will stop after 18 minutes to avoid discharging the battery.

Alarm Volume

The alarm volume is adjusted by pressing and holding the SELECT knob for 3 seconds until 12/24 is displayed.

Turn the SELECT knob until “AL VOL” is displayed and turn the VOLUME knob to increase or decrease the volume of the alarm.

After 5 seconds, the setting is saved and the display returns to the default.

One Hour Timer

The radio can be set to play for one hour, after which it will automatically turn off. To turn the radio ON for another hour, with the ignition OFF, press the VOLUME knob. After 1 hour of play, the radio will turn OFF. To turn the radio ON for another hour, press the VOLUME knob again.

Audio Controls

The bass and treble audio settings apply to all radio modes (AM/FM, or WX, cassette and CD). A separate set of the following audio adjustments can be stored for each mode.

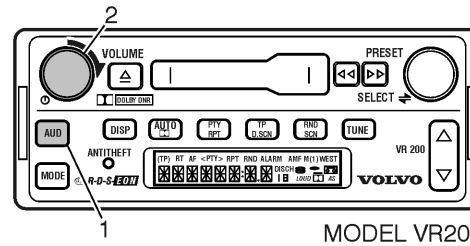
Note: WX (weather) is available only on U.S. models.

Volume Control

While listening in any mode, turn the VOLUME knob to adjust volume.

If you are currently adjusting the sound quality of the radio, (e.g., BASS, TREB, BAL, FADE);

1 Press the AUD button until “VOL” is displayed, then
2 Turn the VOLUME knob to adjust volume.



MODEL VR200

Dynamic Distortion Limiting

Dynamic Distortion Limiting automatically limits the audio distortion level caused by playing the radio too loud. This feature does not need to be set or adjusted.

Balance Control

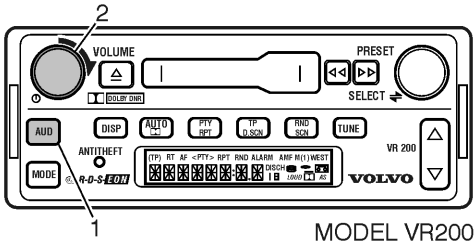
To adjust the left/right balance;

1 Press AUD repeatedly to display BAL.
2 Turn VOLUME to adjust Balance.

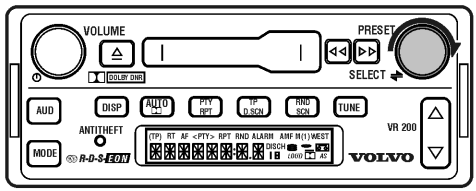
OR

Turn SELECT to adjust BALANCE.

After 5 seconds, the display returns to the default.



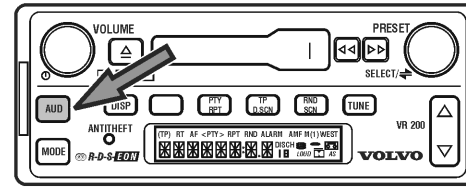
MODEL VR200



MODEL VR200

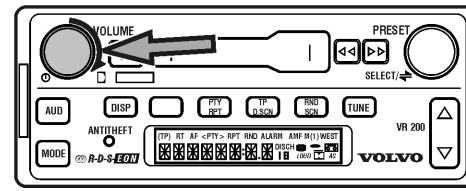
Fade Control

To adjust fade control;
Press AUD repeatedly to display FADE.



MODEL VR200

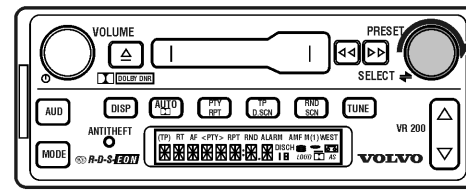
Turn VOLUME to adjust sound between front and back speakers.



MODEL VR200

OR

Turn SELECT to adjust sound between front and back speakers.

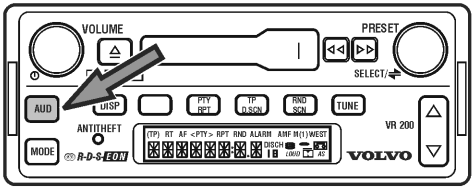


MODEL VR200

After 5 seconds, the display returns to the default.

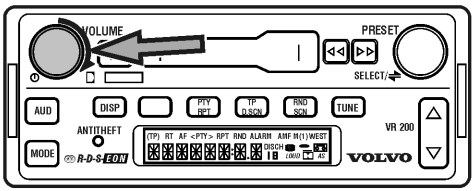
Treble Control

To adjust treble control;
Press AUD repeatedly to display TREB.



MODEL VR200

Turn VOLUME to adjust TREBLE.

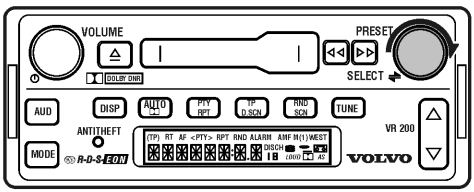


MODEL VR200

W3005831

OR

Turn SELECT knob to adjust TREBLE.

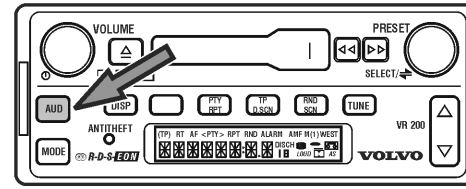


MODEL VR200

After 5 seconds, the display returns to the default.

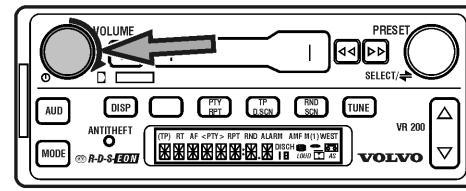
Bass Control

To adjust bass control;
Press AUD repeatedly to display BASS.



MODEL VR200

Turn VOLUME to adjust BASS.

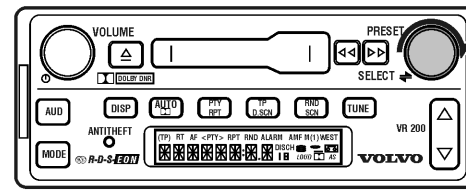


MODEL VR200

W3005831

OR

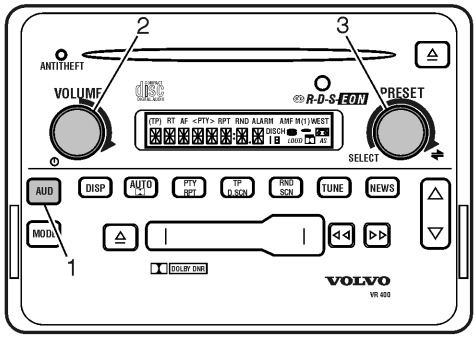
Turn SELECT to adjust BASS.



MODEL VR200

After 5 seconds, the display returns to the default.

Midrange Control (Model VR 400 only)



MODEL VR400

To adjust midrange control;

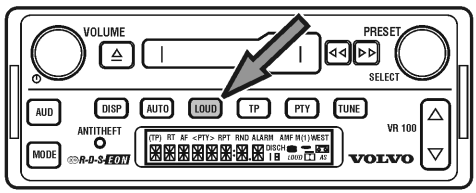
1 Press AUD repeatedly to display MID.
2 Turn VOLUME to adjust MIDRANGE.

OR

3 Turn SELECT to adjust MIDRANGE

After 5 seconds, the display returns to the default.

Loudness (VR 100 Only)



MODEL VR100

The Loudness feature boosts the low (bass) frequency response at low volume levels, improving the sound quality. The amount of boost automatically increases as volume is increased.

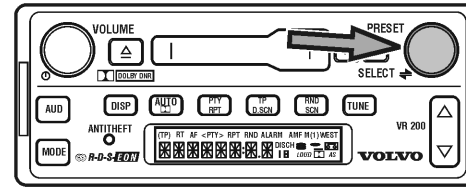
Press the LOUD button to turn ON. (The “LOUD” icon is displayed). Press again to turn OFF.

All other models have an Auto-Loudness function. This feature cannot be turned ON or OFF.

2 or 4 Speaker Select

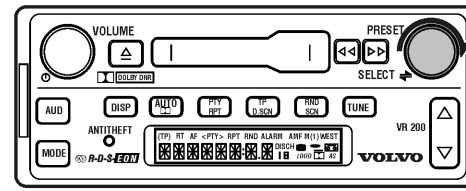
Depending on the radio speaker installation in your vehicle, 2 or 4 speaker output can be selected. To change this selection;

Press the SELECT knob for 3 seconds to display 12/24.



MODEL VR200

Turn the SELECT knob to display SPKR.

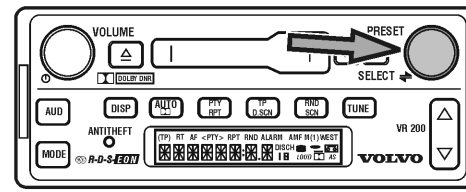


MODEL VR200

Press SELECT to choose 2 or 4.

When the 2 speaker option is chosen, the rear speakers are disabled and the fade adjust setting does not function.

After 5 seconds, the setting is saved and the display returns to the default.



MODEL VR200

Room Simulation (Model VR 400 Only)

One of five acoustic settings can be chosen, simulating different listening environments and providing a variety of sound qualities:

TALK:

This mode limits the frequency response and delays audio from the rear speakers compared to the front speakers. This effect is very useful on AM talk radio because it filters much of the noise and moves the audio image forward.

LIVE:

Simulates the acoustics of live musical performance in a larger room.

AUDITORIUM:

The same effect as LIVE, but more pronounced, giving the feeling of an even larger room.

ARENA:

Creates the effect of being in a large arena.

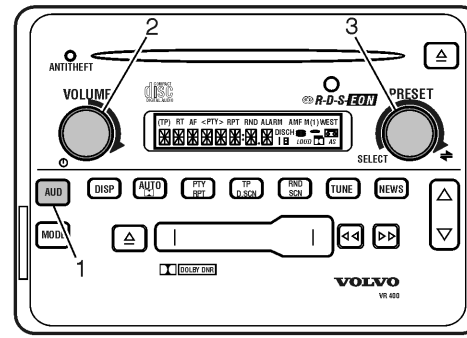
DRIVER L or DRIVER R:

The sound from the driver side front speaker is delayed with respect to the passenger side front speaker, creating the effect of shifting or moving the audio image (for left hand and right hand drive vehicles).

To select a Room Simulation;

1 Press AUD until RSIM is displayed.
2 Turn VOLUME to select sound effect.
OR
3

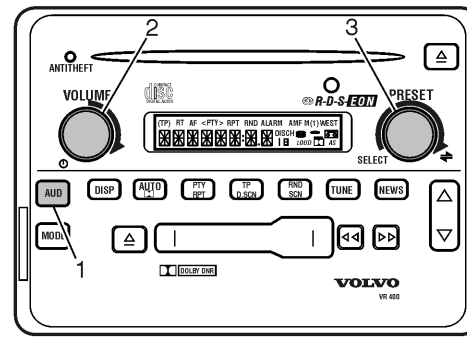
Turn the SELECT knob to select sound effect.



MODEL VR400

To change the degree of effect, from 0 (minimum) to 15 (maximum), for the selected simulation,

1 Press AUD to scroll RSIM # to change the degree of effect.
2 Turn the VOLUME knob to increase or decrease effect.
OR
3 Turn the SELECT knob to increase or decrease effect.



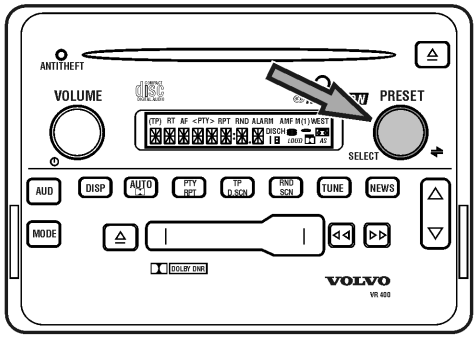
MODEL VR400

After 5 seconds, the setting is saved and the display returns to default as indicated on the display.

Speed-Dependent Volume (Model VR 400 with Steering Wheel Controls Only)

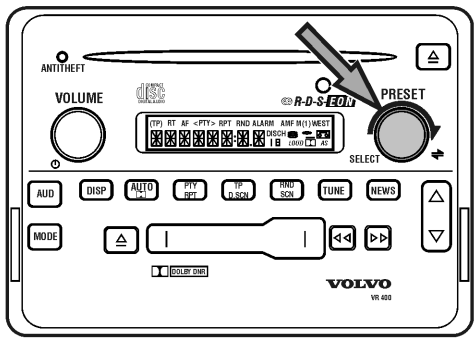
The Model VR 400 can automatically adjust the volume based on your vehicles speed, turning the volume up as you travel faster and down as you travel slower. This adjustment helps the radio to be heard over vehicle and road noise. To turn Speed-Dependent Volume ON:

Press and hold SELECT to display 12/24



MODEL VR400

Turn SELECT to display SCV.

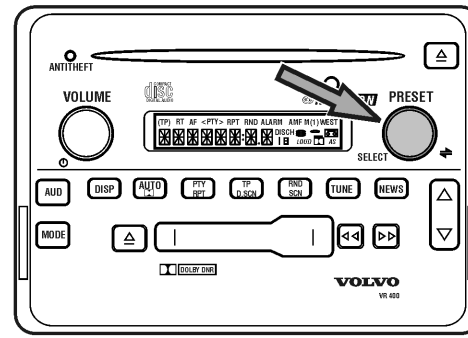


MODEL VR400

Press SELECT to choose level of volume.

change to “N” (off), “l” (low setting, “2” (medium setting) or “3” (high setting).

Note: The volume change is heard only while the vehicle is moving, but may not be noticeable due to the changes in road noise.



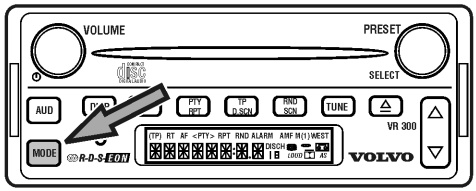
MODEL VR400

Band Select

Different bands of entertainment and information services are available from the following models: AM, FM or WX.

To select a band: (AM, FM or WX);

Press MODE to display desired band.



MODEL VR300

Weather Band

The National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce provides continuous broadcasts of taped weather messages.

These messages are repeated every 4 to 6 minutes and routinely updated every 1 to 3 hours.

Updates are more frequent during severe weather. Most NOAA weather stations broadcast 24 hours a day.

NOAA broadcasts on 7 channels. In some areas, more than one broadcast may be available. Select the broadcast location closest to your location for the best reception.

Note: The Weather Band option is only available when the country chosen is Americas. See the Country Frequency Selection section.

Note: Severe weather condition broadcasts are not automatically broadcasted by these radios. The weather band must be selected to hear weather condition information.

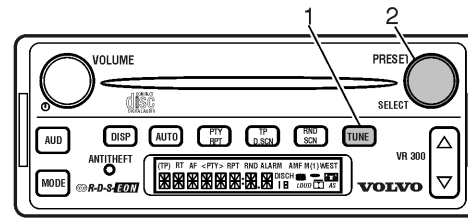
When the Weather Band is selected, the radio will display “WX” and a channel number. The **WX** icon illuminates.

Tune

1 In any tuner mode (AM, FM or WX), Press TUNE.
2 Turn SELECT to tune manually.

If you reach the end of a frequency band, the radio will roll over or wrap to the opposite end of the band and continue through the band.

If the select knob is not rotated within 5 seconds, the manual tune function is canceled and the SELECT returns to its default function.



MODEL VR300

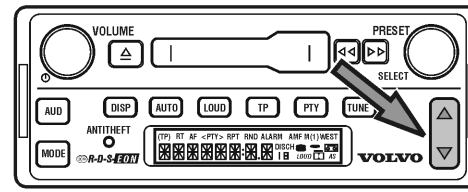
Seek

The radio can automatically seek stations, finding and stopping on the next station that exceeds the sensitivity level set. To seek for a station in any tuner mode (AM, FM or WX) the next higher or lower station on the current band;

Briefly press the UP/DOWN arrows to SEEK.

The radio mutes as it searches for the next station with a strong signal. When it finds a station, the radio stops seeking and the audio returns to the original volume.

Press the UP/DOWN arrows again for next station.

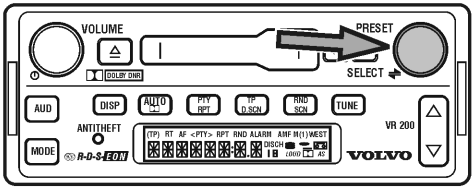


MODEL VR100

Seek Sensitivity-FM and AM (U.S. Frequency bands only)

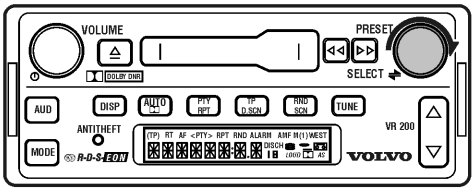
In FM and AM tuner modes, the sensitivity of the Seek function can be adjusted to stop at stations with weaker or stronger signals. To adjust this sensitivity;

Press and hold SELECT to display 12/24.



MODEL VR200

Turn SELECT to display SEEK.



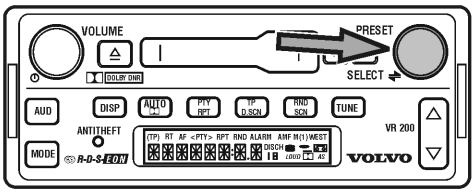
MODEL VR200

Press SELECT to scroll between **–2 (min)** and **+2 (max)**.

After selecting SEEK, the VOLUME knob can be rotated to scroll between the settings.

After 5 seconds, the setting is saved and the display returns to the default.

The **-2** setting will stop only on very strong signals. The **+2** setting will stop on weaker signals.



MODEL VR200

Scan

During a Scan, the radio searches for the next station, pauses on it for a few seconds, and then searches again for the next station.

To scan while in any tuner mode (AM, FM or WX) press and hold the UP/DOWN rocker button to search for the next higher or lower station on the current band. The radio displays

SCAN and the audio mutes. The radio searches for and stops on the next station with a strong signal and the audio returns to the original volume. After 5 seconds, the audio mutes again and the radio continues the scan. To stop the scan, press the UP/DOWN rocker button.

If no station is found in 2 passes through the band, the scan will stop at the starting frequency.

RDS (Radio Data System Features)

RDS transmits additional information encoded on an FM stations regular signal. The RDS feature works only with FM broadcast stations transmitting this encoded information. RDS broadcast is widely available in Europe, but less common in North America.

RDS features include:

- Alternate Frequency switching
- Traffic Program announcements
- Program Type selections
- Radio Text

Alternate Frequency Switching (AF)

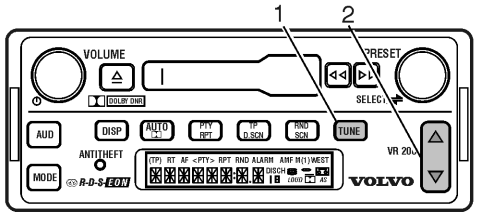
With the AF feature, the radio automatically switches to another station or frequency, if available, that is broadcasting the identical program materials as the original station, when the original station begins to fade.

With AF turned on, you can drive across a country or continent while listening to the same program, without retuning your radio.

To turn the AF feature ON, while in the FM mode;

1 Press and hold TUNE for 3 seconds to display **AF-ON** or **AF-OFF**.
OR
2 Press the UP/DOWN rocker button.

Note: AF networks are common in Europe, but rare in the US.



MODEL VR200

Traffic Program (TP)

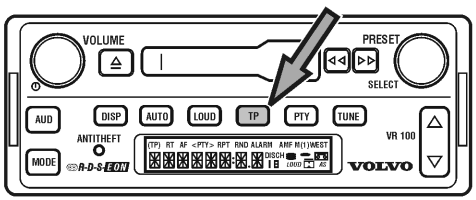
When the Traffic Program feature is turned on and a traffic announcement is received, the radio will automatically interrupt the current mode to broadcast traffic condition announcements that are provided by some stations or networks.

If there are no announcements, NO TRAFF is displayed.

Press TP to turn ON. **TP** icon is displayed.

Press TP again to turn OFF.

Note: TP cannot be turned ON in AM or WX mode.



MODEL VR100

If TP is turned ON and the radio is not tuned to a station broadcasting traffic announcements, it will begin to SEEK a station that broadcasts announcements. The radio will display “SEARCH”.

During a Traffic Announcement, the radio display is “TRAFFIC”.

There are 3 TP icons that may be displayed:

TP Current station can broadcast traffic announcements, the function is not enabled.

[TP] Flashing Current station can broadcast traffic announcements, the function is enabled.

[ ]—The function is enabled, but there are no stations/networks being received that broadcast traffic information. This can also occur if the TP function is enabled but the radio travels out of the broadcast area for the station/network that was broadcasting the traffic information.

Traffic Announcement Volume

The volume of all traffic announcements can be reduced or increased by adjusting the volume while an announcement is being heard. When the next announcement is received, the volume will automatically increase to this volume. When the announcement is over, the radio will return to the previous volume setting of whatever radio mode was playing.

The Traffic Announcement volume setting will be saved for all future announcements until it is adjusted again.

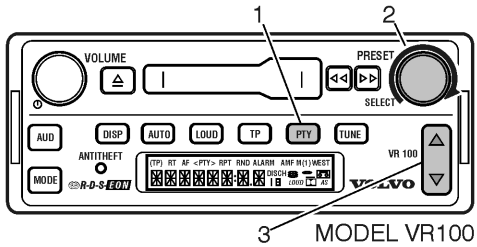
Program Type Function (PTY)

To select a particular type of music programming (Jazz, Sports, Country, etc.)

1 Press PTY to display **PTY** icon:
2 Turn SELECT to scroll through available selections.
3 Press UP/DOWN arrows to SEEK or SCAN.

If a selection is not made within 10 seconds, no PTY is saved and the radio returns to the default.

Note: The PTY button may not function in all areas.



North American PTY listing

CODE	TYPE	ENGLISH	FRENCH	SPANISH
0	NO PROGRAM TYPE	NONE	AUCUN	NINGUNO
1	NEWS	NEWS	INFOS	NOTICIAS
2	INFORMATION	INFO	SERVICES	INFORMACION
3	SPORTS	SPORT	SPORT	DEPORTES
4	TALK	TALK	CAUSERIE	CHARLA
5	ROCK	ROCK_M	’M_ROCK	M._ROCK
6	CLASSIC ROCK	CLS_ROCK	ROCK_CLA	ROK_CLAS
7	ADULT HITS	ADLT_HIT	CONTEMP	HIT_ADTO
8	SOFT ROCK	SOFT_RCK	SOFT_RCK	ROK_BLDO
9	TOP 40	TOP_40	40_HIT_P	40_PRLES
10	COUNTRY MUSIC	COUNTRY	COUNTRY	COUNTRY
11	OLDIES MUSIC	OLDIES	OLDIES	OLDIES
12	SOFT	SOFT	SOFT	MUS_SUAV
13	NOSTALGIA	NOSTALGIA	BIG_BAND	NOSTALGIA
14	JAZZ MUSIC	JAZZ	JAZZ	JAZZ
15	CLASSICAL	CLASSICL	CLASSIC	CLASICOS
16	R & B	R AND B	R AND B	CONTMPOR
17	SOFT R & B	SOFT R B	SOFT R B	CONT_SUA
18	LANGUAGE	LANGUAGE	LANGUE	IDIOMA
19	RELIGIOUS MUSIC	REL_MUSC	MUS_REL	MUS_REL
20	RELIGIOUS TALK	REL_TALK	CAU_REL	CHRL_REL
21	PERSONALITY	PERSNLTY	PERS	PRSONAJE
22	PUBLIC	PUBLIC	PUBLIC	PUBLICA
23	COLLEGE	COLLEGE	UNIV.	UNIVER
24-28	SPARE	BLANK		
29	WEATHER	WEATHER	METRO	TIEMPO

CODE	TYPE	ENGLISH	FRENCH	SPANISH
30	EMERGENCY TEST	TEST	TEST	PBA_EMRG
*31	EMERGENCY ALERT	ALERT!	ALERTE	ALARMA!

Note: PTY's that are marked with**" *"** cannot be used for a PTY SEEK, but this is only shown in the display.

Program Type Interrupt

Program Type Interrupt (PTY) will interrupt all other modes (cassette, CD, etc.) if a radio station begins to broadcast the chosen PTY program.

To designate an interrupt, follow the previous instructions to choose the desired program type, then press and hold the PTY button for 2 seconds while the desired PTY is selected, until "*****" is displayed and the chosen PTY icon is enclosed in . <brackets>.

To cancel the interrupt, press the PTY button and then rotate the SELECT knob to display the PTY designated by the "*****". Press and hold the PTY button for 2 seconds until "*****" is no longer displayed.

Note: An RDS interrupt can not interrupt another RDS interrupt. The first interrupt received will be played and any others received during the playback of the first interrupt will be ignored.

Program Type Seek

If PTY is not active, press the PTY button. Then press the UP/DOWN rocker button to Seek for the currently selected program type.

Program Type Scan

If PTY is not active, press the PTY button. Then press and hold the UP/DOWN rocker button until a beep is heard and the radio begins to scan for the currently selected program type.

Variants/Region Function

With this function turned on, the radio will seek or scan for AF network stations that have the same programming with only slight differences, like different commercials. With this function off, the radio will not switch to a network with similar programming.

To turn this function on or off, press and hold the SELECT knob until 12/24 is displayed. Then turn the SELECT knob until "ACPT VAR" is displayed. You can choose from the following options:

- To look for identical and similar stations, choose "ACPT VAR" (in US) or REG OFF (in Europe).
- To look for only identical stations choose "RJCT VAR" (in US) or REG ON (in Europe). Press the SELECT knob to choose the desired option.

After the desired choice is displayed for 5 seconds, the setting is saved and the display returns to the default.

Radio Text (RT) (VR 200, VR 300 and VR 400)

The Radio Text function allows you to read any text messages transmitted by the currently tuned radio station on your radio display. These messages could include song title and artist, station slogans, contest information, etc.

Messages are available when the RT icon **RT** is displayed. To view the messages, press the DISP button until “TEXT” is displayed. After 3 seconds, the first line of the message is displayed.

After 2 seconds, the next line of the message is automatically shown. To scroll through the message at a faster pace, press the DISP button. Three seconds after the last line of text is displayed, or when the DISP button is pressed, the default display returns.

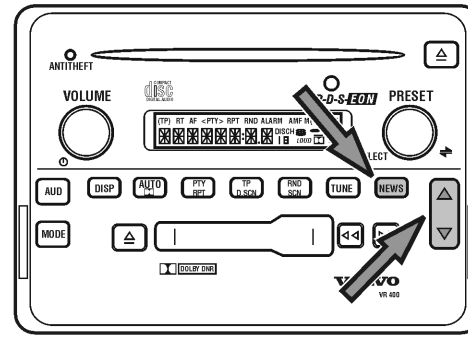
NEWS Program Button (Model VR 400 only)

When this feature is active, the radio will automatically interrupt the current programming to broadcast news programming. To enable a news interrupt, while in FM mode,

Press NEWS to enable a news interrupt.

Press the up or down arrows to SEEK news programming.

Press NEWS again to turn OFF.



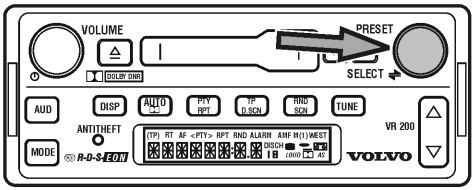
MODEL VR400

Presets

You can enter presets for your favorite radio stations on each of the radios different bands. Model VR 100 has 12 FM, 12 AM and 6 WX preset channels. All other models have 18 FM, 12 AM and 6 WX preset channels.

Storing Preset Stations

You can enter presets for your favorite radio stations on each of the radios different bands. Model VR 100 has 12 FM, 12 AM and 6 WX preset channels. All other models have 18 FM, 12 AM and 6 WX preset channels.

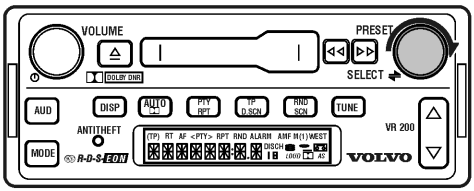


MODEL VR200

To store a station as a preset, tune to the desired station:

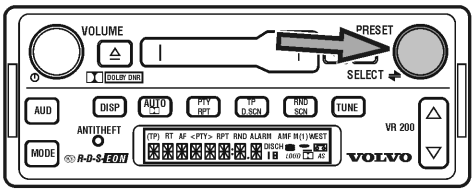
Push and release SELECT until STORE and a flashing preset number display.

Turn SELECT to change preset number.



MODEL VR200

Push SELECT to store station at that number.



MODEL VR200

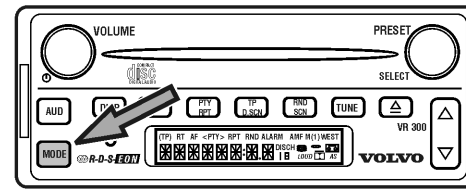
"STORE" is cleared from the display and the preset number stops flashing.

The audio returns to the original volume.

Note: If no preset is stored, the radio will return to the previous mode.

Accessing the Preset Stations

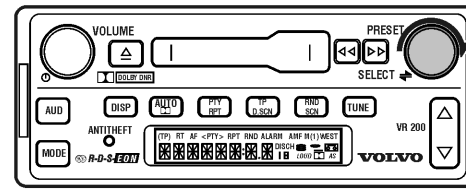
Press MODE until desired band is displayed (AM, FM or WX)



MODEL VR300

Turn SELECT to choose preset station.

Note: If currently tuned to the desired band, you only need to turn the SELECT knob.



MODEL VR200

Preset Scan (VR 200, VR 300 and VR 400)

The preset stations can be scanned through in each of the bands. To Scan through presets;

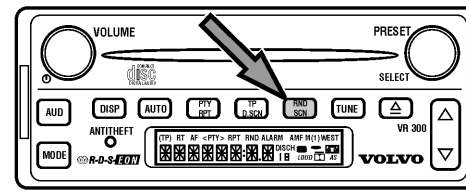
Press RND/SCN to display PSCN and begin scanning presets.

While scanning, the radio pauses for approximately 5 seconds on each preset. To stop the scan;

Press RND/SCN again.

The scan continues until it is stopped.

Note: When scanning through presets, the radio will only stop on presets where the station strength is strong enough.

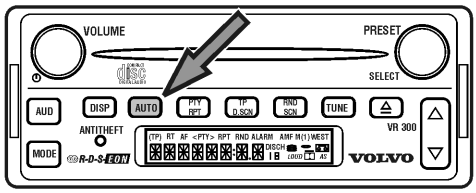


MODEL VR300

Auto-Store Presets

To automatically store the strongest 18 stations available **(12 stations for Model VR 100)** as presets (AM, FM or WX):

Press AUTO to scan for strongest signals and store as presets.



MODEL VR300

The radio displays **AS** and AUTO as the radio searches for and stores stations.

Auto-Store will stop after 18 stations

(12 for Model VR 100) are found and stored. If there are not enough strong stations to fill the presets, the stations discovered will be duplicated until all memory locations are filled.

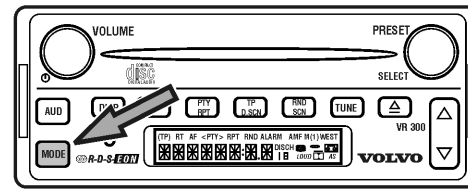
If no stations are found, Auto-Store will automatically cancel. Press the AUTO button at any time to cancel the Auto-Store function.

Note: When Auto-Store is turned off, the presets that were saved will be lost and the radio will return to the presets stored before Auto-Store was enabled.

Emergency Broadcast (Alert)

The feature will interrupt the current mode and switch to an emergency radio broadcast. The radio will display “ALERT”.

Select any MODE to cancel EMERGENCY BROADCAST ALERT.



MODEL VR300

Emergency Broadcast Volume

You can adjust the volume of all Emergency Broadcasts while a broadcast is being heard. When the next Emergency Broadcast is received, the volume will automatically increase to this volume. When the broadcast is over, the radio will return to the previous volume setting of whatever radio mode was playing. The Emergency Broadcast volume setting will be saved for all future announcements until it is adjusted again.

Note: The volume cannot be adjusted lower than the minimum preset alert/alarm volume. An alert/alarm can be canceled by selecting any mode (AM, FM, CASS, CD, etc.).

Cassette Select

Model VR 100

Insert a cassette into the radio and it will automatically begin to play. “TAPE_A” or “TAPE_B” is displayed, depending on which side of the tape is playing.

Model VR 200 and VR 400

Ensure a cassette is inserted. Press the MODE button until “CASS” is displayed. “TAPE_A” or “TAPE_B” is displayed, depending on which side of the tape is playing. If no cassette is loaded when pressing the MODE button, the radio will display “NO TAPE” and return to FM mode.

Cassette Tightening and Error Detection (VR 200 and VR 400)

Each time a cassette is inserted into the radio, the player automatically checks for a loosely wound tape and tightens it before playing. The player also detects tapes that are too tightly wound or broken. If a tightly wound or bad tape is detected, BAD TAPE is displayed and the tape is ejected.

The Cassette Tightening and Error Detection feature may prevent cleaning cassettes from working properly. To use cleaning cassettes, you can override the error detection.

If a cleaning tape is rejected;

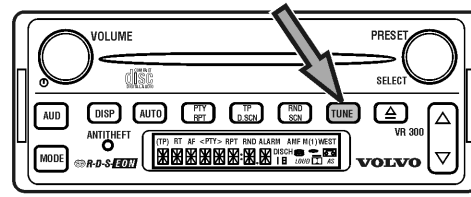
With the radio OFF and the ignition ON,

Press and hold TUNE for 5 seconds until “BAD TAPE” and “DETECT OFF” display.

Insert the cleaning tape.

To turn CASSETTE TIGHTENING and ERROR DETECTION back ON;

Press and hold TUNE until BAD TAPE DETECTION is displayed.

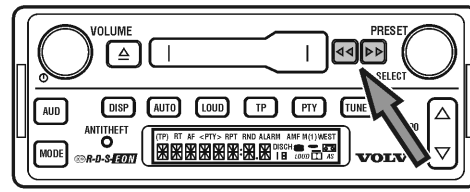


MODEL VR300

Change Cassette Side

Model VR 100

To play the opposite side of a playing cassette, press the RW and FF buttons at the same time.



MODEL VR100

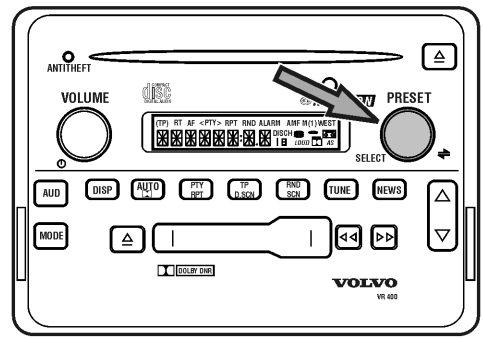
Model VR 200 and VR 400

Note: Illustration used here is VR 400, however, the instruction applies to both VR 200 and VR 400.

To play the opposite side of a playing cassette;

Press SELECT.

For all models with cassette, the cassette is automatically reversed when it reaches the end of a side.

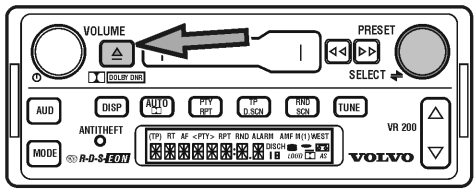


MODEL VR400

Stop and Eject

Model VR 200 and VR 400

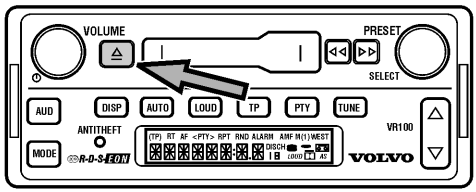
To **stop play**, press the EJECT button. The radio returns to the last selected mode. Press the EJECT button again to eject the cassette. To eject the cassette when the radio is in another mode, press the EJECT button.



MODEL VR200

Model VR 100

To **eject** the cassette, press the EJECT button. The tape is ejected and radio mode is activated. Tapes can be ejected while the ignition is OFF.



MODEL VR100

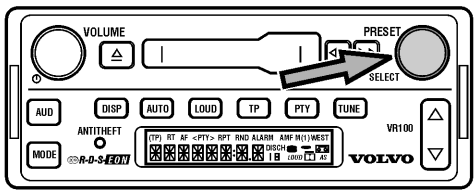
Pause (Model VR 100 Only)

Model VR 100

To pause a playing cassette;

Press the SELECT knob until MUTE is displayed. To begin playing the cassette again;

Press the SELECT knob again.



MODEL VR100

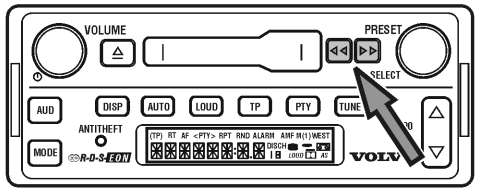
Fast Forward/Rewind

Model VR 100

To activate Fast Forward or Rewind, press the Fast Forward >> or Rewind button <<.

To cancel Fast Forward or Rewind;

Press the opposite button >> or <<.



MODEL VR100

Model VR 200 and VR 400

To activate Fast Forward;

Press the Fast Forward button >>until “**FWD >>**” is displayed.

The activate Rewind;

Press the Rewind button << until “**<<REV**”

To cancel Fast Forward or Rewind;

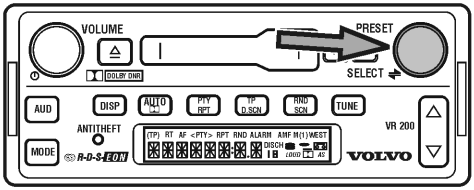
Press the same button.

Note: If the Radio Monitor is ON, a different station can be searched while the cassette is in Fast Forward or Rewind mode.
While SEEKING, the display shows “FWS” or “REV” along with the frequency number.

Radio Monitor Function

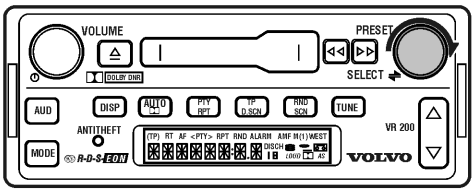
The Radio Monitor function allows the radio to be heard while fast forwarding or rewinding a cassette. To turn Radio Monitor ON or OFF:

Press SELECT for 3 seconds to display 12/4.



MODEL VR200

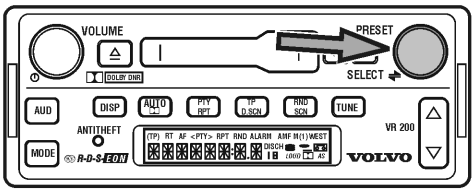
Turn to display MONI.



MODEL VR200

Press SELECT change between ON and OFF.

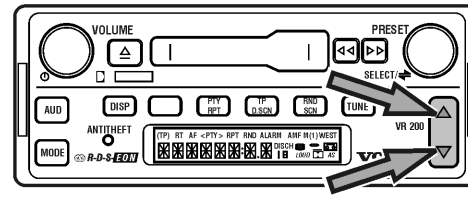
After 5 seconds the selection is saved and the display returns to the default.



MODEL VR200

Next Music Search (VR 200 and VR 400)

Most cassettes have blank space between each selection. Use Next Music Search to find or determine these pauses, to locate the beginning of the next selection.



MODEL VR200

To fast forward to the next blank space on the cassette:

Press the UP/DOWN arrow to display NEXT>1.

To fast forward past several blank spaces;

Press the UP/DOWN arrow repeatedly.

The number on the display shows how many blank spaces will be skipped.

If the end of the side is reached during a Next Music Search, the cassette direction changes and begins to play the opposite side.

Previous Music Search (VR 200 and VR 400)

To rewind to the previous blank space on the cassette;

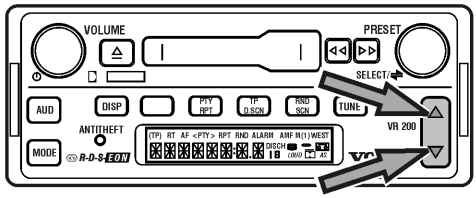
Press the UP/DOWN arrow to display <PREV1.

To fast forward past several blank spots;

Press the UP/DOWN arrows repeatedly.

If the beginning of the side is reached during a Previous Music Search, the cassette begins to play at the beginning of the current side.

Note: If the current selection has been playing for less than 8 seconds, pressing the UP/DOWN rocker button will fast rewind to the blank space before the previous selection.

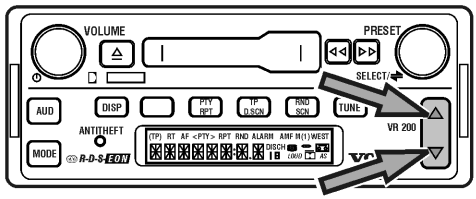


MODEL VR200

Canceling a Next/Previous Music Search

To cancel a music search;

Press the UP/DOWN arrows until NEXT>1/<PREV1 display is 0.



MODEL VR200

Dolby Noise Reduction (VR 200 and VR 400)

Enabling the Dolby B-type noise reduction function during cassette playback will reduce background noise on tapes that were recorded with this technology.

To turn on or turn off Dolby B-type noise reduction, press the button with the double-D logo. The double-D icon will display while the noise reduction is on.

Manufactured under a license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Tape Player Care

The tape player must be cleaned after every 35 hours of use.

Clean the player with a scrubbing-action, non-abrasive cleaning cassette. These cassettes have a bottle of cleaning liquid that is applied to cleaning pads and scrubs the tape heads.

To properly clean your tape player, follow the instructions with the cleaning cassette. Cleaning cassettes should be replaced regularly.

Note: The cleaning cassette is not included with your radio and must be purchased separately.

DO NOT touch the cassette head with magnetic or hard objects. DO NOT lubricate the player mechanism. Do not use cassettes that are longer than 90 minutes (C-90). Longer cassettes, like C-120, tend to have thinner tape that may stretch or break and may damage your player.

CAUTION

Not cleaning the tape player can cause reduced sound quality and may ruin cassettes or damage the player.

Cassette Tape Care

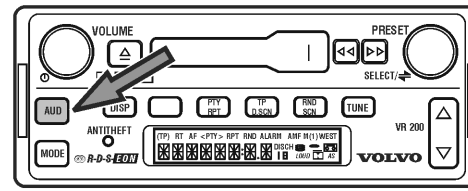
DO NOT use cassettes that are deformed, dirty or contaminated. Cassette tapes that are not properly stored in their plastic cases away from contaminants, direct sunlight and extreme heat may not operate properly and may damage your tape player.

Cassette tapes are subject to wear and the sound quality may degrade over time. Always verify the cassette tape is in good condition before use.

Cassette Clean Indicator

The tape player will alert you that it should be cleaned by displaying the message TP CLEAN. After the player is cleaned,

Press AUD for 5 seconds to clear display. CLN RST is displayed for 3 seconds. The display returns to the default.



MODEL VR200

If you experience poor sound quality from your cassette player, try playing a different cassette tape to see if the tape or tape player is at fault. If the second cassette tape also has poor sound quality, try cleaning the tape player, regardless of when the player was last cleaned.

Note: DO NOT release the AUD button before “CLN RST” is displayed to reset the clean condition.

Compact Disc (CD) Player

CD Select

Insert a CD in the radio's CD slot and it will automatically begin to play. The track number and the CD icon are displayed.

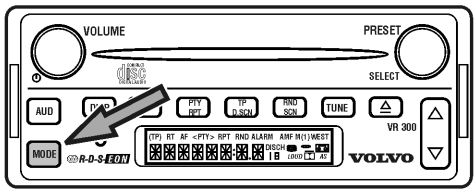
If the radio is in another mode and a CD is already in the player;

Press MODE until CD is displayed or

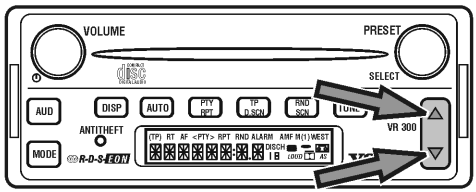
Press and hold the UP/DOWN arrow untill CD is displayed.

Press the UP/DOWN rocker button.

If you select the CD mode while no CD is loaded, the radio displays NO CD and returns to FM mode.



MODEL VR300

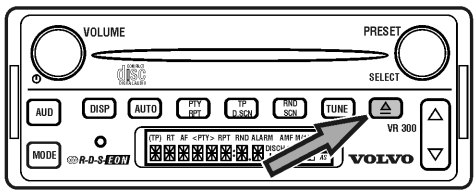


MODEL VR300

CD Eject

Press the EJECT button to eject a CD from the player. CDs can be ejected even when the ignition is off.

If a CD is ejected but not removed within approximately 15 seconds, the CD automatically reloads but does not begin to play. The automatic reload feature helps protect the CD from possible damage.

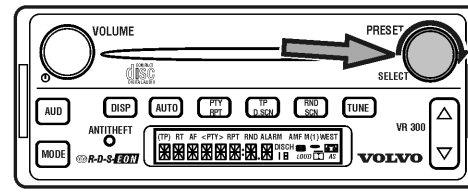


MODEL VR300

Next Track

To skip forward to higher track numbers; Turn SELECT clockwise to skip forward.

Continue to hold the knob and the player will continue to move forward through following tracks. The player will move through the tracks more quickly if the knob is turned further clockwise. Once the last track is reached, the player starts over at track 1 and continues to go up.



MODEL VR300

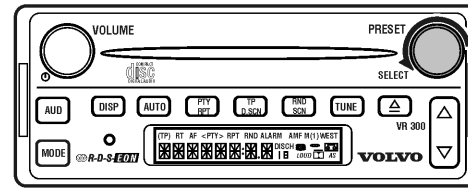
Previous Track

to skip backward to the beginning of the current track,

Turn SELECT **counter** clockwise.

Continue turning the knob. The player continues to move backward through previous tracks. Once track 1 is reached, the player skips to the last (highest numbered) track and continues to go down.

Note: If the track has played for less than 8 seconds when the SELECT knob is turned, the player skips backward to the beginning of the previous track.

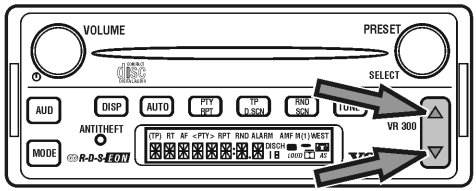


MODEL VR300

Fast Forward

To activate Fast Forward;

Press and **hold** the UP/DOWN rocker buttons to FAST FORWARD. After 3 seconds, the CD begins to fast forward until the rocker button is released. The elapsed time is displayed while the CD fast forwards.



MODEL VR300

Note: Because the audio disc is played at a faster rate when fast forwarding, you will be able to hear the audio but the quality will not be normal.

Fast Reverse

To activate Fast Reverse; Press and **hold** the UP/DOWN rocker buttons to FAST REVERSE.

After 3 seconds, the CD begins to fast reverse until the rocker button is released. The elapsed time is displayed while the CD reverses.

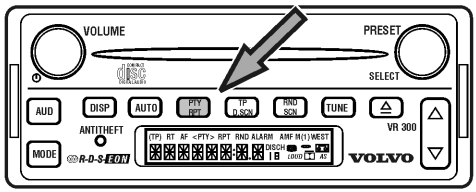
Note: Because the audio disc is played at a faster rate when fast reversing, you will be able to hear the audio but the quality will not be normal.

Repeat Play Function

To repeat the current track;

Press the PTY/RPT button till RPT is displayed. This repeats current track.

Press the same button to cancel REPEAT.



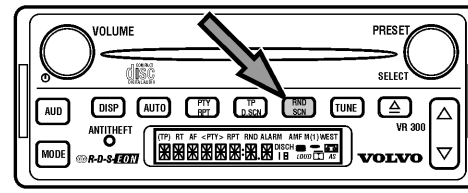
MODEL VR300

Random Play Function

To repeat the current track;

Press RND/SCN to activate function.

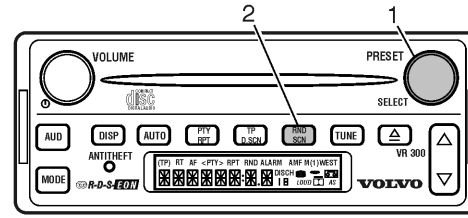
Press RND/SCN again to cancel function.



MODEL VR300

Scan Tracks Function (CD Player)

The Scan Tracks function plays the first 10 seconds of each track in order. To activate this function; Press the RND/SCN button till SCN is displayed.



MODEL VR300

To cancel scan;

1 Press SELECT.

OR

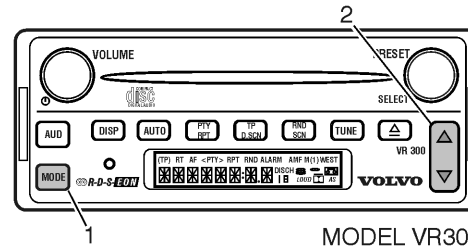
2 Press and hold RND/SCN button

OR

1 Press MODE

OR

2 Press and hold the UP/DOWN rocker buttons.



MODEL VR300

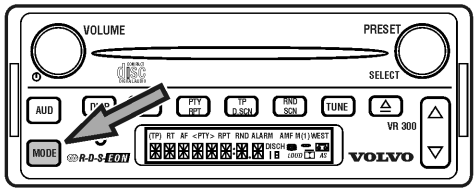
Using the CD Changer (CDX) (CDX not compatible with Radio Model VR 100)

CD Changer Select

Press MODE until CDX is displayed.

The last selected CD in the changer begins to play. The track number and CD number are displayed.

If there is no CD in the cartridge or a cartridge has not been inserted into the changer, the radio displays “NO CDX” and return to the previous mode



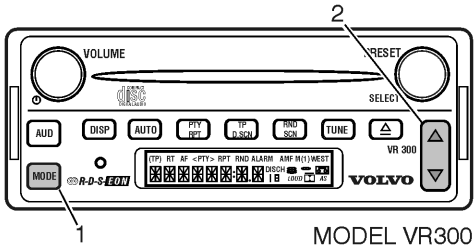
MODEL VR300

CD Select

To select a CD in the changer;

1 Press MODE until CD is displayed.
2 Press the UP/DOWN rocker buttons.

The CD number on the display changes to match the number of the CD selected and the CD begins playing.



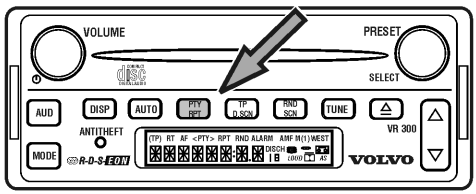
MODEL VR300

Repeat Track Function

To replay the current track;

Press PTY/RPT once to REPEAT current track. The **RPT** icon is displayed. To cancel the REPEAT CD function;

Press PTY/RPT twice.



MODEL VR300

Repeat CD Function

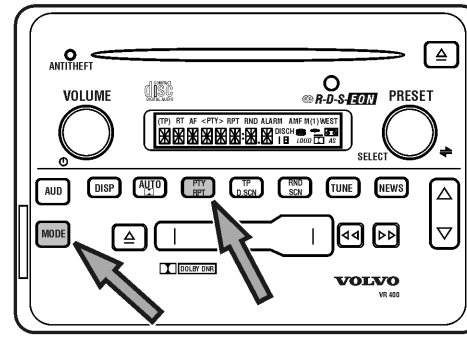
To replay the current CD;

Press PTY/RPT twice.

The RPT icon and the flashing CDX icon **RPT** are displayed.

To cancel REPEAT;

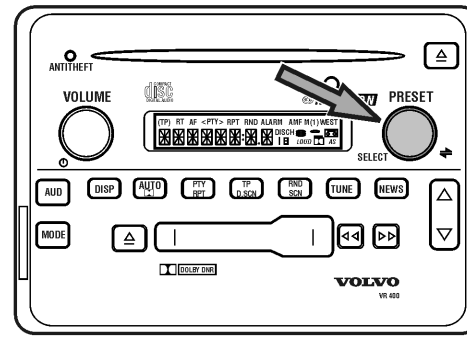
Press MODE or PTY/RPT once.



MODEL VR400

Random Track Function

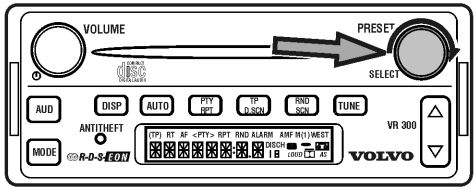
To play chosen tracks randomly on the current CD; Press and hold SELECT until 12/24 is displayed.



MODEL VR400

Turn SELECT button to display RND/SCN.

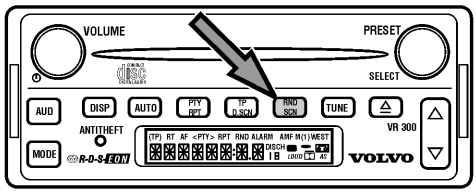
Press SELECT to choose 1.



MODEL VR300

After 5 seconds the selection is saved.

Press RND/SCN to activate function.



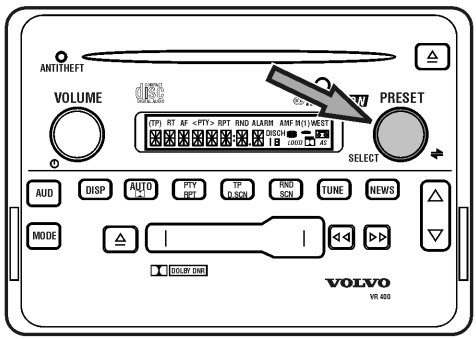
MODEL VR300

W3005846

The **RND** icon is displayed.

To cancel this function;

Press RND/SCN again.

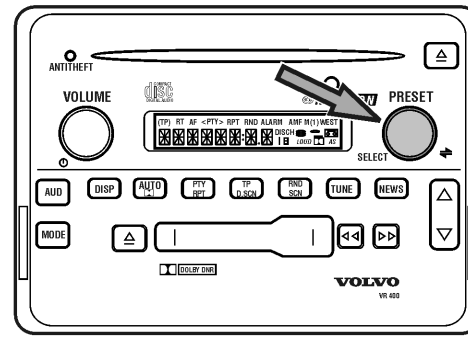


MODEL VR400

Random CD/Track Function

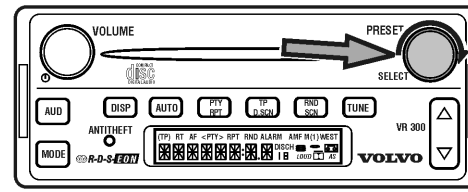
To play chosen tracks randomly from all CDs;

Press and hold SELECT until 12/24 is displayed.



MODEL VR400

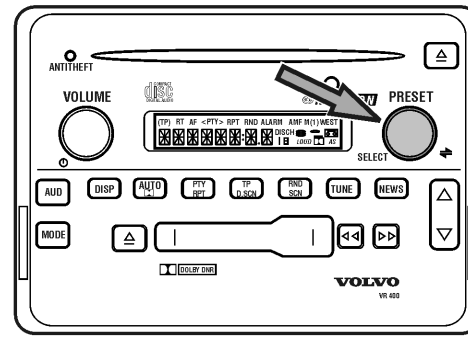
Turn SELECT button to display RND.



MODEL VR300

Press SELECT to choose 6.

After 5 seconds the selection is saved.



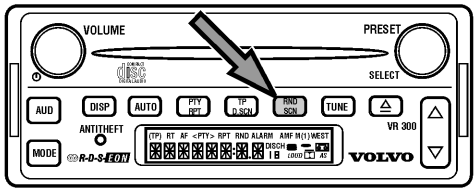
MODEL VR400

W3005849

Press RND/SCN to activate function.

The **RND** icon is displayed.

Press RND/SCN again to cancel function.

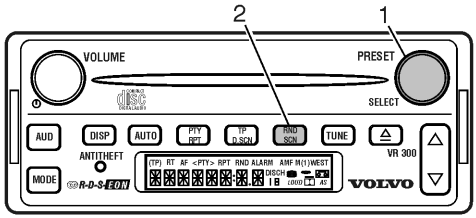


MODEL VR300

Scan Tracks Function

The Scan Tracks function plays the first 10 seconds of each track on the current CD. To activate this function;

1 Press SELECT.
2 Press until RND/SCN until SCN T# is displayed.
To cancel this function; Press and hold the same button.



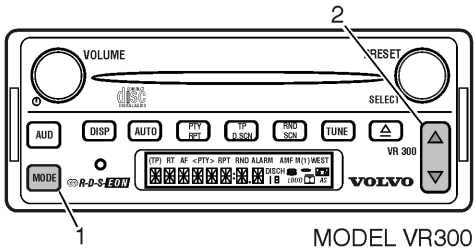
MODEL VR300

OR

1 Press MODE.

OR

2 Press and hold the UP/DOWN rocker button.



MODEL VR300

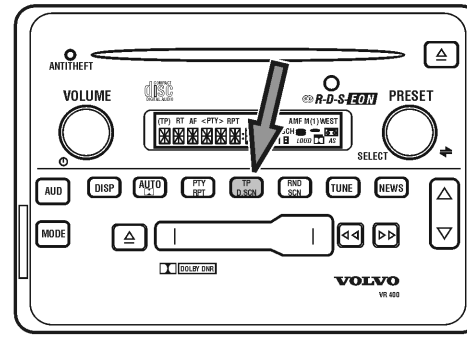
Scan CDs Function

The Scan CDs function plays the first 10 seconds of the first track of each CD in the changer. To activate this function;

Press and hold TP/D.SCN button until DISCSCAN is displayed.

To cancel this function;

Press and hold the same button.



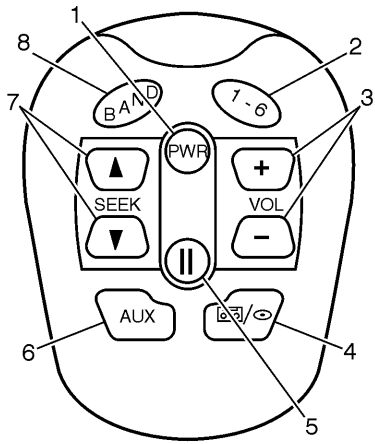
MODEL VR400

Infrared Remote (Accessory)

The Infrared Remote can be used to control all models except Model VR 100.

Power ON/OFF

Press the POWER button to turn the receiver on or off. The vehicle must be turned on.



1 Power ON/OFF
2 Radio Preset
3 Volume Control
4 Cassette/CD Select
5 MUTE button
6 CD Changer Select
7 Radio Band Select
8 Mode

Volume

Press the + button to raise the volume or press the "_" button to lower the volume. "VOL" is displayed with the number that represents the volume level.

Mute

Press the MUTE button to mute any mode. MUTE is displayed. To cancel the mute, press the MUTE button again. While muted, CDs and cassettes continue to advance.

Radio Select

Press the MODE button to change from a playback mode (cassette, CD, CD changer) to the radio mode.

The radio plays the last selected band and station. To choose a different band, press the MODE button until the desired band is displayed.

Radio Tune

Press and hold the top or bottom of the SEEK button to slowly move through the frequencies on the current band. Continue to hold the SEEK button to activate a fast tune. Release the button to stop the tune.

Radio Seek

Press the top or bottom of the SEEK button to seek the next station. The audio mutes as the radio searches for and stops on the next station with a strong signal. After finding a station, the audio returns to the original volume.

Note: Seek will cancel if no signal is strong enough for the radio to recognize it.

Radio Presets

To listen to the preset stations, choose the desired band by pressing the MODE button. Then repeatedly press the P.SET button until the desired preset number is displayed.

Cassette Select

Press the cassette/CD button until “CASS” is displayed. “TAPE_A” or “TAPE_B” is displayed, depending on which side of the tape is playing.

CD Select (Single, Intergrated CD)

Press the cassette/CD button until “CD” is displayed. The CD begins to play where it left off, and the track number and time elapsed are displayed.

Track Select

While in CD or CDX mode, rotate the SELECT knob to choose the desired track. The track number on the display increases or decreases depending on how many times the button is pressed.

CD Changer Select

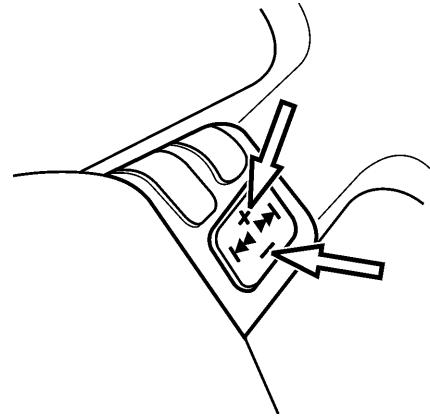
Press the CD changer button until the CD changer symbol and track number are displayed. The last selected CD and track begin to play and the track number, DISC icon, and the CD number are displayed

CD Select

To choose another CD, press the CD changer button until the desired CD number is displayed. You can also press and hold the CD changer button to quickly advance through the CDs in the changer. Release the button to stop on the currently displayed CD number.

Steering Wheel Controls

The Steering Wheel Controls allow you to keep your hands on the wheel while controlling many radio functions. **Steering Wheel Controls are not available with Model VR 100.**



Volume

Press the + button to raise the volume or press the – button to lower the volume. VOL is displayed with the number that represents the volume level.

Radio Manual Tune

While in the radio mode, press the>> or <<button for 1 second to activate a slow tune. Press the >> or <<button for 3 seconds to activate a fast tune.

Radio Seek

Press the >> or << button for less than 1 second to activate a Seek. The audio mutes. The radio searches and stops on the next station with a strong signal, and the audio returns to the original volume. The scan continues until a strong signal is found, but will cancel the Seek after passing through the band without finding a strong signal.

Cassette Fast Forward/Rewind

While in cassette mode, press the>> button to fast forward the cassette or press the <<button to fast rewind the cassette. To stop the fast forward or rewind, press the same button >> or <<.

CD Track Select

While in CD mode, press the >> or <<button to choose the desired track. The track number on the display will increase or decrease depending on how many times the button is pressed.

CD Select

While in CDX changer mode, press and hold the >> and <<buttons at the same time until the desired CD number is displayed. The numbers will increase without stopping until the button is released.

Additional Inputs/Outputs

Note: The features below are applicable only with certain optional equipment. See an authorized Volvo dealer for details.

Switched Auxiliary Outputs

Switched Auxiliary Outputs (SAOs) are available to power or control external devices such as a power antenna, external amplifier or rear seat audio. Model VR 100 has a single SAO. All other Models have 3 SAOs.

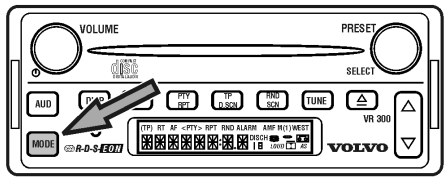
Low-Level Audio Outputs

All radios except Model VR 100 have single-ended connections for low level audio outputs for the right front, left front, right rear and left rear audio signals. An optional amplifier is typically used with low-level outputs.

Auxiliary Audio Input

All radios except Model VR 100 have 2 monaural external audio inputs. Input #1 can be used for applications like navigation while input #2 is useful as a telephone input. The auxiliary audio source is automatically selected by the telephone or navigation unit when properly connected through the control lines.

When either external audio source is selected, the radio will display EX AUDIO along with any appropriate icons. The radio audio functions can be adjusted in the same way as they are in other modes.



MODEL VR300

To override Auxiliary Audio mode;

Press and hold MODE for 5 seconds. The radio returns to the previous operating mode.

The radio will return to the previous operating mode.

Selecting Speakers for Auxiliary Audio

Navigation audio can be directed to the left or right front speaker. To select the speaker for Navigation audio, press and hold the SELECT knob for more than 3 seconds. The display shows 12/24_XX.

Rotate the SELECT knob through the various options until the display shows Nav. X, where X is either **L** for left or **R** for the right speaker. To change between the left and right speaker selection, press the SELECT knob.

Phone audio can be directed to either the front or all 4 speakers. To select the speakers for phone audio, press and hold the SELECT knob for more than 3 seconds.

The display will show 12/24_XX. Then rotate the SELECT knob through the various options until the display shows PH_ X, where X is either FRONT or ALL. To change between the front or all speaker selection, press the SELECT knob.

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